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PUBLIC WORKS DEPARTMENT

MADRAS PRESIDENCY

# ADMINISTRATION REPORT

FOR THE YEAR

## 1937-1938

**PART I—WITH A DETAILED REVIEW OF CIVIL WORKS**

*(Part II—Irrigation will be issued separately)*

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45

MADRAS

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# CONTENTS


| | PAGE |
|---|---|
| DIAGRAM SHOWING PUBLIC WORKS EXPENDITURE .. .. | *Frontispiece* |
| SECTIONS. | |
| I ADDITIONS AND ALTERATIONS TO TERRITORIAL CHARGES. | 1 |
| II REVIEW OF CIVIL WORKS— | |
| (1) Office of the Chief Engineer (Buildings and Roads). | 2 |
| (i) Consulting Architect section .. .. .. | 2 |
| (ii) Technical section .. .. .. .. | 3 |
| (2) Works in progress .. .. .. .. .. | 5 |
| (i) Buildings .. .. .. .. .. | 5 |
| (ii) Communications— | |
| (*a*) Roads .. .. .. .. .. .. | 9 |
| (*b*) Bridges and causeways .. .. .. | 9 |
| (iii) Water-supply schemes .. .. .. .. | 10 |
| (iv) Drainage schemes .. .. .. .. | 11 |
| III REVENUE .. .. .. .. .. .. .. | 11 |
| IV GRANT AND OUTLAY .. .. .. .. .. .. | 12 |
| V MANUFACTURING OPERATIONS .. .. .. .. | 15 |
| VI WORKSHOPS .. .. .. .. .. .. .. | 15 |
| VII STORES .. .. .. .. .. .. .. .. | 16 |
| VIII DIRECTION .. .. .. .. .. .. .. | 17 |
| *Appendix A.*—Statement showing the appropriation and outlay during 1937–38 under all heads of Civil Works .. .. .. | 19 |
| *Appendix B.*—Statement showing the length of Road Communications maintained by Public Authorities excluding the Corporation of Madras .. .. .. .. .. .. | 22 |
| *Appendix C.*—Statement showing the amounts spent by Civil Officers on repairs to buildings borne on the Public Works Department registers .. .. .. .. .. .. | 24 |
| PHOTOGRAPHS— | |
| 1 Natural Science Block Buildings, Madras. | |
| 2 Class II Residence, Adyar, Madras. | |
| 3 Shortwave Broadcasting Station, Guindy, Madras. | |
| 4 Eranjolly Bridge at mile 2/0 of the Tellicherry-Coorg road. | |
| 5 Bridge across the Aliyar river at mile 0/1 of the Anamalai Ghat road. | |

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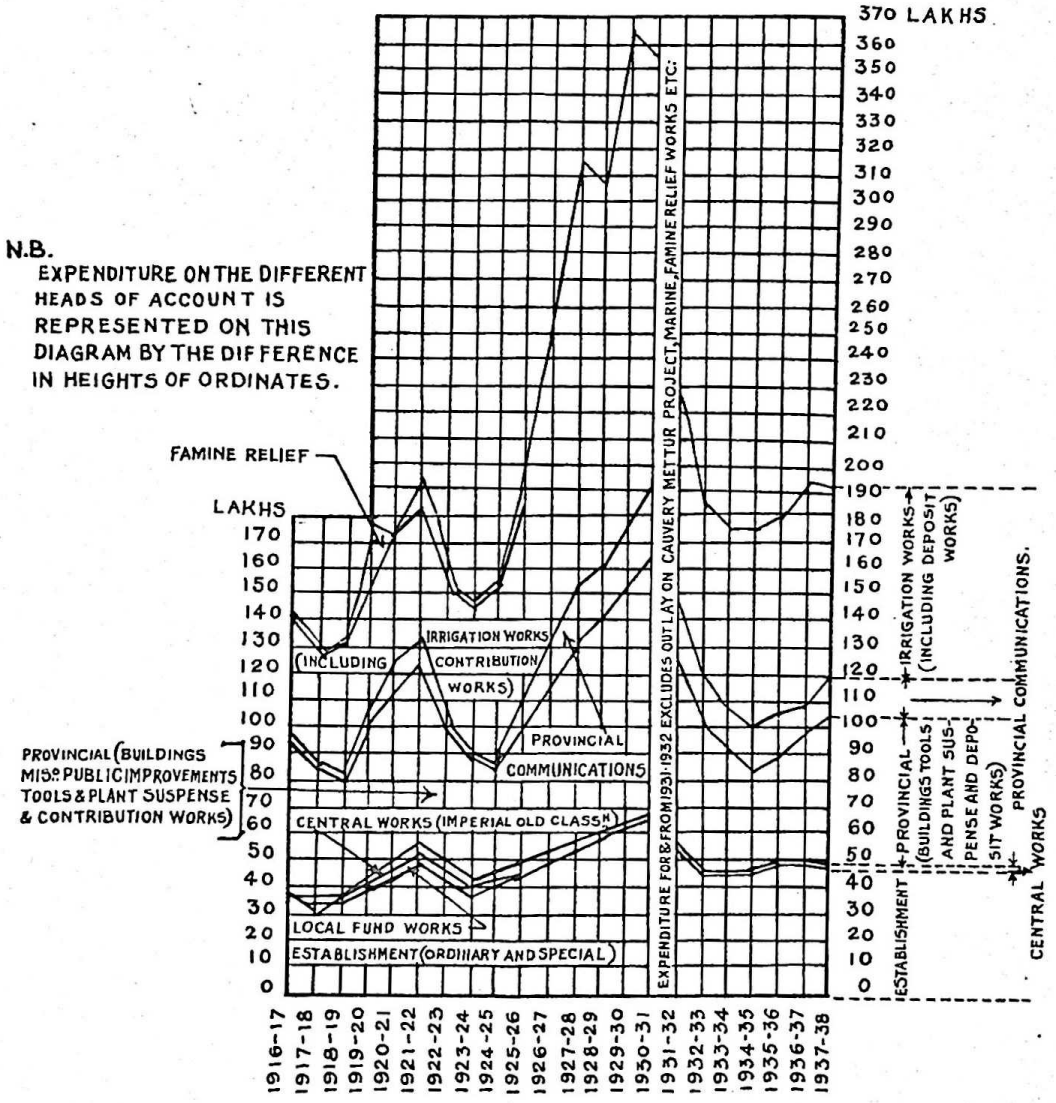
# DIAGRAM SHEWING PUBLIC WORKS EXPENDITURE

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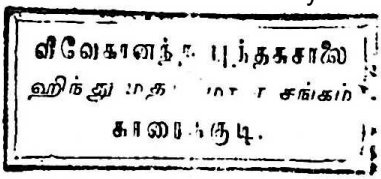

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PUBLIC WORKS DEPARTMENT, MADRAS PRESIDENCY.

# ADMINISTRATION REPORT

## FOR THE YEAR 1937-1938

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### I.—ADDITIONS AND ALTERATIONS TO TERRITORIAL CHARGES.

#### Bellary Circle.

The Special Tanks Division, Chittoor, which was taken over by the Bellary Circle on its formation in December 1936 was closed on 1st October 1937, and the Anantapur Subdivision which was transferred from the Bellary to the Madanapalle Division in August 1936, was retransferred to the Bellary division on 11th October 1937. The North Arcot Division was transferred to this circle on 1st December 1937, but as famine works were started, this was annulled in G.O. No. 1140, P.W.D., dated 13th December 1937.

#### Bezwada Circle.

Two special subdivisions were formed, one on 1st May 1937 and the other on 27th January 1938, for the work of fitting falling shutters over the Sangam Anicut, and for the work of forming a new tank in Gundemadakala village, Udayagiri taluk, respectively. The Kistna special division formed on 16th March 1933 with the three subdivisions attached to it for the execution of the Kistna East Bank canal and Campbell canal schemes, and the two special temporary subdivisions of the Guntur and Nellore divisions, formed for the execution of minor irrigation works, were closed on 30th June 1937 and 30th September 1937, respectively.

#### Coimbatore Circle.

The North Arcot Division was transferred to the Bellary Circle on 1st December 1937, but retransferred to the Coimbatore Circle in G.O. No. 1140, P.W.D., dated 13th December 1937.

#### Dowlaishwaram Circle.

The Tapeswaram section of the Ramachandrapur Subdivision was transferred to the Cocanada Subdivision from 3rd January 1938.

#### Madras Circle.

The retention of the New Road Division was sanctioned up to 14th August 1938, and the Special Subdivision for the execution of improvements to minor irrigation works in the Chingleput district was closed on 30th September 1937.

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TANJORE CIRCLE.

The Grand Anicut Canal Division formed temporarily on 20th July 1933, was made permanent from 1st April 1937, and the two subdivisions attached to the Vennar and South Arcot Divisions for the accelerated programme of improvements to minor irrigation works were closed on 30th September 1937 and 31st December 1937, respectively. The latter subdivision was however, subsequently, retained till 28th February 1938 for the execution of flood damage works.

TRICHINOPOLY CIRCLE.

The Virudunagar Water-works Subdivision was closed on 31st March 1938, and a new subdivision for the Madura Hospital Works was formed on 1st April 1938. The special subdivisions attached to the Tinnevelly, Ramnad and Trichinopoly Divisions for the special accelerated programme of works were closed on 30th September 1937, 31st October 1937 and 31st October 1937, respectively.

## II.—REVIEW OF CIVIL WORKS.

### (1) Office of the Chief Engineer (Buildings and Roads).

After the termination of Mr. Dann's contract, the two sections, viz., Consulting and Special Architect sections, were amalgamated on 11th May 1937 and Mr. Jacob Fernandes continued to hold the post of the Consulting Architect to Government.

The work turned out in the Consulting Architect and Technical sections was as follows :—

(i) CONSULTING ARCHITECT SECTION.

During the year 570 drawings were prepared.

Detailed schedule of quantities were prepared for nearly 30 schemes aggregating in value approximately to Rs. 25 lakhs. Approximate estimates were prepared for various works amounting to about Rs. 41·6 lakhs. The following were the important buildings and projects dealt with during the year :—

(1) Madura Headquarters Hospital.

(2) Vizagapatam King George Hospital—Outpatients' and Maternity Blocks.

(3) Madras Caste and Gosha Hospital—Ward for 88 beds and nurses' quarters.

(4) Cocanada Hospital—'D' Block.

(5) Stanley Medical School, Rayapuram.

(6) Proposed extensions to the Secretariat Building, Fort St. George, Madras.

(7) Quarters for His Majesty's British Consul-General at Pondicherry.

(8) Medium-wave Transmitter Station, Trichinopoly.

(9) Type-design for a court-house for Sub-Judge or District Munsif.

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Detail drawings were prepared in considerable numbers for the schemes referred to above.

During the year under review 50 educational Grants-in-aid cases were dealt with aggregating in value approximately to Rs. 22 lakhs.

(ii) TECHNICAL SECTION.

I. Two hundred and forty-eight (248) estimates of the aggregate value of about rupees one hundred and eighty-two lakhs (182 lakhs) were scrutinized in this section during the year. These may be divided under the following heads :—

| | Number of estimates. | Amount. |
|---|---|---|
| | | RS. |
| (a) Buildings .. .. .. .. .. | 209 | 66,30,511 |
| (b) Water-supply .. .. .. .. | 9 | 53,27,550 |
| (c) Drainage .. .. .. .. .. | 7 | 29,58,650 |
| (d) Bridges and causeways .. .. .. | 12 | 10,51,333 |
| (e) Roads .. .. .. .. .. | 10 | 20,52,508 |
| (f) Miscellaneous .. .. .. .. | 1 | 1,94,000 |
| | | 1,82,14,552 |
| | | or say 182·14 lakhs. |

II. Important amongst these, estimated to cost over 1 lakh are—.

(a) *Buildings.*

1. Headquarters Hospital, Cocanada.

2. Victoria Caste and Gosha Hospital—Extensions and improvements—Additional ward for 88 beds.

3. New combined court-house for Sub-Judge and District Munsif at Narasapur.

4. New buildings for Rayapuram Stanley Medical School.

5. Victoria Caste and Gosha Hospital Scheme—Madras—Quarters, Wards & Cow-sheds.

6. Wireless Station, Tiruvottiyur.

7. National Girls' School, Mylapore.

8. Pachiappa's College, Madras—Construction of buildings at Chetput.

9. Official Residences—Adyar—Class I Officers.

10. New Headquarters Hospital, Madura—Medical and Surgical Blocks.

11. Collector's Office—Saidapet—Correspondence Branch—Construction.

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(*b*) *Water-supply.*

1. Madras (City)—Thyagarayanagar Extensions of pipe-lines.

2. Madras (City)—Duplication of conduit from Red Hills to Kilpauk Pumping Station.

3. Madras (City)—Fourth pumping unit for Kilpauk Pumping Station.

4. Saidapet (Municipality) Scheme—Fourth workslip.

5. Calicut (Municipality) Scheme.

6. Madura (Municipality) Scheme—Third stage improvements.

7. Cuddalore N.T. (Municipality) Scheme.

(*c*) *Drainages.*

1. Tuticorin (Municipality) Scheme.

2. Madura (Municipality)—Laying under-ground sewers in Adimulam Pillai Agraharam area.

3. Virudunagar (Municipality) Scheme.

4. Cochin (Municipality) Scheme.

(*d*) *Bridges and Causeways.*

1. Bridge across the river Gundar at Tiruchuli, Ramnad District Board.

2. Bridge across the river Vottigedda on the Palkonda-Parvatipur Road, Vizagapatam district.

3. Bridge across the Tambaraparni river at Murappanad, Tinnevelly district.

4. Causeway across the Cheyyar river at M. 11/7-8 of Conjeeveram-Wandiwash Road, Tiruvannamalai District Board.

(*e*) *Roads.*

1. Salem Municipality—Improved types of road surfacings on the more important roads.

2. Great Northern Trunk Road—Chingleput district—Experimental surfacings from M. 4–5–600 to M. 11–6–0.

3. Tellicherry-Coorg Road and Calicut-Vayitri-Gudalur Road—Malabar district—Special surfacings.

4. Ramnathakara-Klari Road—Malabar district.

5. Great Western Trunk Road—Chingleput district—Cement concreting, M. 3/5 to 8/0.

6. Great Southern Trunk Road—Madura district—Improved type of surfacing—M. 300/7 to 303/6.

7. Madura-Melur Road, M. 3/2 to 9/8, Madura district—Improved surfacings.

(*f*) *Miscellaneous.*

1. Construction of a sea wall in front of Court road, Tellicherry Municipality.

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VALUE OF GOVERNMENT BUILDINGS IN CHARGE OF THE PUBLIC WORKS DEPARTMENT.

The total value of buildings in charge of the department was 1,132·7 lakhs. Repairs to these buildings cost as follows :—

| | Lakhs. | Percentage to capital value. |
|---|---|---|
| | RS. | PER CENT. |
| Repairs carried out by the Public Works Department .. | 15·4 | 1·56 |
| Repairs carried out by occupying departments .. .. | 2·28 | |

## (2) Works in Progress.

The total expenditure during the year on works and repairs under all heads was 72:69 lakhs as compared with 59 :09 lakhs in the previous year. The figures include deposit works and exclude irrigation works.

### (i) BUILDINGS.

*Additions and alterations to the Senate House for the temporary accommodation of the Legislative Assembly—Estimate Rs.* 1,26,000. —Outlay during the year, Rs. 40,440 and to end of the year, Rs. 1,17,726.

The work was completed during the year.

*Additions and alterations to the Government House, Guindy—A.S. Rs.* 1,00,000—*T.S. Rs.* 1,07,000.—Outlay during the year, Rs. 77,405 and to end of the year, Rs. 87,495.

The work was completed.

*Construction of a combined court-house for the Sub-Judge and District Munsif, Trichinopoly—Estimate Rs.* 1,08,000.—Expenditure during the year, Rs. 29,744 and to end of the year, Rs. 88,113. The work was completed.

*Extensions to the Electrical Engineering Laboratory of the New Engineering College, Guindy—Estimate Rs.* 1,16,500.—Outlay during the year, Rs. 13,436 and to end of the year, Rs. 1,07,841.

The work was completed.

*Construction of a Natural Science block for the Presidency College, Madras—Estimate Rs.* 5,38,000—*W.S. Rs.* 4,80,000.—Outlay during the year, Rs. 93,385 and to end of the year, Rs. 3,03,843. The building was completed and formally opened by His Excellency the Governor on 1st February 1938.

*Acquisition of site and construction of a building for the Municipal High School, Anantapur—Estimate Rs.* 1,38,800—*W.S. Rs.* 1,25,050.—Expenditure during the year, Rs. 10,475 and to end of the year, Rs. 1,25,995. The work was completed and the building handed over to the municipality.

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*Acquisition of buildings of the Madras Volunteer Guards Institute for the Traffic and Licensing Department of the Madras City Police—Estimate Rs.* 1,17,200—*W.S. Rs.* 1,19,600.—Outlay during the year, Rs. 2,860 and to end of the year, Rs. 1,19,230. The work was completed.

*Construction of buildings for the Short-wave Wireless Receiving Station with quarters at Tiruvottiyur—Estimate Rs.* 1,46,615.—Outlay during the year, Rs. 16,558 and to end of the year, Rs. 1,06,397. All works completed except the petrol bunk.

*Construction of a combined court-house for the Sub-Judge and District Munsif, Tuticorin—Estimate Rs.* 1,21,000—*W.S. Rs.* 1,08,090.—Expenditure during the year, Rs. 43,007 and to end of the year, Rs. 58,000. The main building and subsidiary buildings have almost been completed.

*Construction of a building for the correspondence branch of the Collector's Office, Saidapet—Estimate Rs.* 1,15,000.—Outlay during the year, Rs. 58,263 and to end of the year, Rs. 88,355. The main building was completed and occupied. Estimate for the sub-works, viz., sanitary fittings, water-supply, extension of tiffin room and latrine since requisitioned are under preparation and have to be executed.

*Extensions to the Madras Record Office—Estimate Rs.* 1,80,100. —Outlay during the year, Rs. 74,994 and to end of the year, Rs. 80,592. The work was completed except for the erection of record-racks and construction of connecting corridors. The record-racks are being fabricated in the Public Works Workshops.

*Construction of additional buildings for the Government Museum, Madras—Estimate Rs.* 1,15,000.—Outlay during the year, Rs. 48,541 and to end of the year, Rs. 58,572. The building proper was completed. Sub-works such as furniture, sanitary fittings, etc., have to be provided.

*Construction of a building for the Stanley Medical School—Estimate Rs.* 1,81,000.—Outlay during the year, Rs. 63,530 and to end of the year, Rs. 78,863. The main building was completed except for finishing items. Sanitary fittings, electrical works and lecture gallery remain to be done.

*Construction of quarters for the Harbour Police at Tondiarpet—A.S. Rs.* 1,27,000—*T.S. Rs.* 1,26,000.—Outlay during the year, Rs. 23,958 and to end of the year Rs. 99,479. The main work was completed. Additional items asked for by the Commissioner of Police remain to be done.

*Construction of quarters and other buildings for the Malabar Special Police—Estimate T.S. Rs.* 8,28,019.—Expenditure during the year, Rs. 19,635 and to end of the year, Rs. 6,92,169. The work was almost completed excepting for a few petty items.

*Remodelling of the General Hospital, Madras—A.S. Rs.* 39,29,000—*T.S. Rs.* 39,42,632.—Expenditure during the year, Rs. 1,51,866 and to end of the year Rs. 30,13,893.

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The following sub-works were in progress :—

*Constructing a new X-Ray Institute—Estimate Rs.* 3,27,500+ *Rs.* 3,200.—Outlay during the year, Rs. 208 and to end of the year, Rs. 3,01,693+Rs. 2,084. All petty items asked for were completed.

*Construction of a new operation block and surgical wards—Estimate Rs.* 11,48,230+*Rs.* 9,800—*W.S. Rs.* 9,500.—Outlay during the year, Rs. 72,257 and to end of the year, Rs. 9,52,229+ Rs. 6,734. The work is nearly completed.

*Constructing a Venereal block—Estimate Rs.* 2,28,000.—Outlay during the year, Rs. 15,784 and to end of the year, Rs. 1,69,293. Constructing a fountain, providing metal gratings and some minor items were completed.

*Constructing a new Out-patients' Department.*—Compound wall, connecting corridors, etc., were completed. The work of providing W.I. grill and collapsible gates to the entrance waiting hall was in progress.

*Improvements to the main buildings—Estimate Rs.* 1,64,000. —Outlay during the year, Rs. 42,130 and to end of the year, Rs. 67,522. Providing mosaic tile flooring and wall dados are in progress ward by ward. Minor additions and alterations are also in progress.

*Constructing a new kitchen and store-block—Estimate Rs.* 1,68,000.—Outlay during the year, Rs. 37,113 and to end of the year, Rs. 49,880. The work is in progress.

*Sanitary installation, drainage and water-supply scheme—Estimate Rs.* 4,43,000.—Outlay to end of the year, Rs. 1,75,104. The plant for hot water-supply was erected by the Public Works Workshops. The work is in progress.

*Installation of combined gas plant for the Medical College and General Hospital—Estimate Rs.* 1,10,000.—Outlay during the year, Rs. 206 and to end of the year, Rs. 1,01,609. A few gas distribution lines to main building were laid.

*Constructing a combined Administrative block for the General Hospital and Pathological Institute for the Medical College, Madras—Estimate Rs.* 12,00,000.—Expenditure during the year, Rs. 8,888 and to end of the year, Rs. 9,03,936. The work is in progress.

*Extensions to the Government Mental Hospital—Estimate Rs.* 1,65,150.—Outlay during the year, Rs. 30,089 and to end of the year Rs. 30,192. The male refractory ward was completed.

*Construction of a septic ward of 52 beds in Government Rayapuram Hospital—Estimate Rs.* 1,40,000.—Expenditure during the year, Rs. 11,016 and to end of the year, Rs. 11,351. A major portion of reinforced concrete slab foundation and sand filling was completed and superstructure is in progress.

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*Construction of a new headquarters hospital at Madura—Estimate Rs.* 15,99,000.—Expenditure during the year, Rs. 2,32,959 and to end of the year, Rs. 7,52,161. The site for the venereal block was handed over on 12th May 1938. Almost all the works except the Admission, T.B. and Dental out-patients blocks are in good progress. The whole hospital work is expected to be completed by March 1940.

*Construction of new buildings for the Headquarters Hospital at Cocanada—Estimate Rs.* 5,80,000.—Expenditure during the year, Rs. 1,27,742. The construction of the various wards and quarters was in hand.

*Improvements to the Headquarters Hospital buildings at Guntur—Estimate Rs.* 4,56,885.—Expenditure during the year, Rs. 4,706 and to end of the year, Rs. 3,76,111. The sub-work of water-supply scheme was completed, and Government Orders on the location of the sewage farm well removed from the town are awaited.

*Remodelling the Government Press, Mint Buildings, Madras —A.S. Rs.* 5,80,000—*T.S. Rs.* 5,92,000.—Expenditure during the year, Rs. 94,075 and to end of the year, Rs. 2,40,718. The building was raised to first floor level and reinforced concrete slab was laid. Superstructure is in progress. Subsidiary buildings are nearing completion.

*Constructing a new building and compound wall for the Public Works Workshops, Madras—A.S. Rs.* 4,62,770—*T.S. Rs.* 4,19,510—*W.S. Rs.* 4,92,090.—Expenditure during the year, Rs. 14,227 and to end of the year, Rs. 4,33,980. The compound wall was completed. Erection of cranes, etc., by Public Works Workshops was in progress.

*Remodelling the Penitentiary, Madras—A.S. Rs.* 13,07,678—*T.S. Rs.* 7,07,090.—Expenditure during the year, Rs. 60,831 and to end of the year, Rs. 4,60,307. Construction of 72 cells for under-trial prisoners (Estimate Rs. 81,700) was completed and construction of 42 cells for quarantine prisoners was in good progress.

*Construction of additional buildings for the Lady Willingdon Training College—Estimate Rs.* 2,72,000.—Expenditure during the year, Rs. 20,111 and to end of the year, Rs. 22,503. Foundations were excavated and reinforced concrete raft was laid for the main building. Construction of a block of six garages and compound wall along South Beach Road was in progress.

*Construction of official residences for the gazetted officers in the Madras City at Adyar—Class I—Estimate Rs.* 2,19,000; *Class II—Estimate Rs.* 1,68,000; *Class III—Estimate Rs.* 65,000. —Expenditure during the year, Rs. 2,27,106 and to end of the year, Rs. 2,77,162. Class I residences—The work was in progress. Class II official residences—The work was completed and the buildings were occupied. Class III residences—The work was completed and the buildings were occupied.

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*Construction of quarters for the Armed Reserve and the Presidency General Reserve and other staff at Masulipatam—Estimate Rs.* 1,37,320.—Expenditure during the year, Rs. 46,877 and to end of the year, Rs. 46,977. The work was in good progress.

*Construction of an out-patient ward in the King George Hospital, Vizagapatam—Estimate Rs.*, 3,15,000.—Expenditure during the year, Rs. 400. The work was just started and two servants' quarters situated in the area over which the out-patients block is to be built were demolished.

(ii) COMMUNICATIONS.

(a) *Roads.*

*Experimental road surfacings on the Great Northern Trunk Road from M.* 4—5—600 *to M.* 11—6—0—*Estimate Rs.* 3,27,000.—Expenditure during the year, Rs. 2,59,996 and to end of the year, Rs. 2,60,698. The whole work was practically completed except for a few finishing items.

*Improvements to the Nilambur-Kalikavu-Karuvarakundu Road—Estimate Rs.* 3,15,000.—Expenditure during the year, Rs. 21,633 and to end of the year, Rs. 2,39,919. All work except the construction of the Seriapuzha bridge with approach road was completed.

*Extension of the Vizagapatam-Anantagiri Road from M.* 64/5 *to Araku—Estimate Rs.* 2,57,027.—Expenditure to end of the year, Rs. 1,20,210. Work will have to be resumed only after the required land is handed over by the Revenue Department.

*Improvements to the Great Western Trunk Road from M.* 3—4—547 *to M.* 8—*Providing cement concrete pavement—Estimate Rs.* 3,10,000.—Outlay during and to end of the year, Rs. 390. All the preliminaries were got through during the year and actual execution taken up in 1938–39.

(b) *Bridges and Causeways.*

*Construction of a new bridge across the Eranjolly river on Tellicherry-Coorg Road—Estimate Rs.* 1,27,000.—Expenditure during the year, Rs. 74,654 and to end of the year, Rs. 82,745. The work was completed. Credit on account of the disposal of the dismantled materials of the old bridge remains to be adjusted.

*Reconstruction of the Aliyar bridge on the Anamalai Ghat Road—Estimate Rs.* 1,66,000.—Expenditure during the year, Rs. 1,06,993 and to end of the year, Rs. 1,09,988. The work was completed except for rectifying certain defects in the reinforced concrete deck and lengthening the drain pipes. The bridge was tested and found satisfactory.

*Improvements to the Kondotti-Areacode Road and construction of a bridge across the Kadangalur Thodu—Estimate Rs.* 1,73,000.—Expenditure during the year, Rs. 46,476 and to end of the year, Rs. 83,480. All the works were completed except reinforced concrete decking for the bridge and a few petty items.

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(iii) WATER-SUPPLY SCHEMES.

*Palacole Water-supply Scheme—Revised estimate Rs.* 4,22,500. —The work was completed and the surplus materials were handed over to the municipality.

*Improvements to the Bezwada Water-works.*—Expenditure to end of the year, Rs. 65,706. The work was completed and handed over to the municipality.

*Construction of a reinforced concrete service reservoir and extension pipe lines, Proddatur—Estimate Rs.* 32,585.—Expenditure during the year, Rs. 9,124 and to end of the year, Rs. 31,851. The work was completed in 1936–37. Defects noticed are being attended to by the contractor, as per the condition of contract.

*Extension of pipe-lines to the northern half of Georgepet, Anantapur—Estimate Rs.* 6,870.—Expenditure during the year, Rs. 22 and to end of the year, Rs. 6,831. The work was completed.

*Virudhunagar Water-supply Scheme—Estimate Rs.* 7,26,000—*W.S. Rs.* 6,75,000.—Expenditure during the year, Rs. 1,00,913 and to end of the year, Rs. 5,80,946. The reinforced concrete elevated service reservoir is nearing completion. Only the roof slabs remain to be put up. Distribution system is completed both in the central and extension areas. Only a few fountains are to be completed. Electric pumps have been installed and are working with the power supplied by the Hydro-Electric Department. The town started to have the full benefits of protected water-supply in advance.

*Saidapet Water-supply Scheme (main scheme)—Estimate Rs.* 2,90,700—*W.S. Rs.* 3,05,000.—Contribution and Government share for the year, Rs. 16,600. Expenditure during the year, Rs. 16,606 and to end of the year, Rs. 2,98,848. The whole scheme is practically completed and handed over to the municipality. Minor items such as roads, fencing and levelling the site were in progress.

*Saidapet Water-supply Scheme (Extension to Mambalam, Mettupalayam, Little Mount, Guindy, etc.)—Estimate Rs.* 60,570. —Contribution for the year was Rs. 10,243 including the unspent balance of previous year, Rs. 4,743. Expenditure during the year, Rs. 6,858 and to end of the year, Rs. 47,115. The work is nearing completion. The laying of pipe line to Mambalam was in progress.

*Improvements to Nellore Water-works—Estimate Rs.* 96,000.—Expenditure during the year, Rs. 594 and to end of the year, Rs. 53,518. Due to the delay of the contractors, infiltration gallery work and laying of pipe connexions could be started only in January 1938, and they are being pushed through to completion.

*Arkonam Water-supply Scheme—Estimate Rs.* 1,92,400.—Expenditure during the year, Rs. 38,536 and to end of the year, Rs. 1,34,933. The reinforced concrete service reservoir was completed except for rectifying certain defects. Other works were in progress.

*Extension of pipe-lines to Police lines, Anantapur—Estimate Rs.* 5,780.—Expenditure during the year, Rs. 2,178 and to end of the year, Rs. 4,874.

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*Tiruvallur Water-supply Scheme—Estimate Rs.* 1,32,400.—Contribution for the year, Rs. 2,450. Expenditure during the year, Rs. 310 and to end of the year, Rs. 3,553. Suction well and yield tests were completed, contract was settled and steps were taken to obtain pipes and specials for the pumping mains.

(iv) DRAINAGE SCHEMES.

*Bezwada Drainage Scheme—Estimate Rs.* 7,54,800.—Expenditure during the year, Rs. 44,324 and to end of the year, Rs. 5,62,574. All open drains in block No. 3 were constructed except bits here and there in certain lanes. The 18" covered sullage drain in Wynchipet road was completed and connected to hill drain No. 3. The construction of storm water separator in Wynchipet road and the work of the quarry road connecting the above storm water separator with hill drain No. 4 were in progress. The laying out of plots over the full area of the sewage farm was completed. Providing reinforced concrete covering slabs over hill drains 2 and 3 and a portion of Islampet main drain was taken up early in March 1938.

*Brucepet Drainage Scheme—Estimate Rs.* 4,39,900.—Expenditure during the year, Rs. 65,007 and to end of the year, Rs. 1,41,390. The work was in good progress.

## III.—REVENUE.

### Revenue in the Buildings and Roads Branch of the Public Works Department under XXXIX. Civil Works.

The principal sources of revenue under " XXXIX. Civil Works " are rents and miscellaneous receipts such as sale of produce on Government lands, and they are booked in the accounts under the minor heads ' Rents ' and ' Miscellaneous.' The receipts under the minor head ' Rents ' comprise rents for residential and non-residential buildings in charge of the Public Works Department, including rents for furniture and other special amenities recovered from the occupying Government servants and students, from Provincial Commercial departments such as the Irrigation, Electricity and Cinchona departments, and from departments of the Central Government, local bodies and others.

The receipts credited to the minor head ' Miscellaneous ' are rents from land as distinguished from rents for buildings; sale-proceeds of produce such as wood, grass, fruits, etc., from the compounds of Government buildings and those taken on lease, when such produce is Government property and not grown by the occupants; sale-proceeds of Public Works Department buildings transferred to Central departments; supervision charges on sales of stock;

Koviloor Acadamy


value of stores found surplus; profits on stock due to revaluation; lapsed tender and other deposits; fines; deposits of contractors confiscated for reasons other than damage to works; and all extraordinary items of receipt which cannot be booked under the other minor heads.

A comparison of the receipts under these minor heads during 1937–38 with those in 1936–37 is given below :—

| Minor head. | Accounts, 1936–37. | Accounts, 1937–38. |
|---|---|---|
| | RS. | RS. |
| Rents .. .. .. .. .. | 5,59,425 | 5,55,649 |
| Miscellaneous .. .. .. .. | 2,03,130 | 1,80,763 |

## IV.—GRANT AND OUTLAY.

The following figures illustrate the general progress of the work of the departments :—

(*a*) Total expenditure on Provincial, Central, local and deposit works during the year, excluding irrigation works, establishment, tools and plant and suspense.

| | LAKHS. RS. | | LAKHS. RS. |
|---|---|---|---|
| 1919–20 .. | 65·10 (*a*) | 1929–30 .. | 120·10 (*k*) |
| 1920–21 .. | 79·08 (*b*) | 1930–31 .. | 134·15 (*l*) |
| 1921–22 .. | 83·44 (*c*) | 1931–32 .. | 98·74 (*m*) |
| 1922–23 .. | 68·07 (*d*) | 1932–33 .. | 76·49 (*n*) |
| 1923–24 .. | 73·36 (*e*) | 1933–34 .. | 59·89 (*o*) |
| 1924–25 .. | 75·85 (*f*) | 1934–35 .. | 57·58 (*p*) |
| 1925–26 .. | 82·75 (*g*) | 1935–36 .. | 63·83 (*q*) |
| 1926–27 .. | 92·58 (*h*) | 1936–37 .. | 59·09 (*r*) |
| 1927–28 .. | 117·45 (*i*) | 1937–38 .. | 72·69 (*s*) |
| 1928–29 .. | 108·18 (*j*) | 1938–39 Budget allotment. | 63·44 (*t*) |

(*a*) Includes an expenditure of Rs. 1·67 lakhs under Civil officers.
(*b*) Includes an expenditure of Rs. 2·18 lakhs under Civil officers.
(*c*) Includes an expenditure of Rs. 3·89 lakhs under Civil officers.
(*d*) Includes an expenditure of Rs. 5·82 lakhs under Civil officers.
(*e*) Includes an expenditure of Rs. 4·59 lakhs under Civil officers.
(*f*) Includes an expenditure of Rs. 2·33 lakhs under Civil officers.
(*g*) Includes an expenditure of Rs. 2·04 lakhs under Civil officers.
(*h*) Includes an expenditure of Rs. 1·49 lakhs under Civil officers.
(*i*) Includes an expenditure of Rs. 1·43 lakhs under Civil officers.
(*j*) Includes an expenditure of Rs. 1·11 lakhs under Civil officers.
(*k*) Includes an expenditure of Rs. 0·9 lakh under Civil officers.
(*l*) Includes an expenditure of Rs. 0·7 lakh under Civil officers.
(*m*) Includes an expenditure of Rs. 0·86 lakh under Civil officers.
(*n*) Includes an expenditure of Rs. 0·66 lakh under Civil officers.
(*o*) Includes an expenditure of Rs. 0·77 lakh under Civil officers.
(*p*) Includes an expenditure of Rs. 0·71 lakh under Civil officers.
(*q*) Includes an expenditure of Rs. 0·69 lakh under Civil officers.
(*r*) Includes an expenditure of Rs. 0·64 lakh under Civil officers.
(*s*) Includes an expenditure of Rs. 0·20 lakh under Civil officers.
(*t*) Includes an allotment of Rs. 0·30 lakh under Civil officers.

Koviloor Acadamy


(*b*) Comparison of programme with execution—

| Year. | Original budget programme. | Expenditure percentage of budget allotment. | |
|---|---|---|---|
| | | More. | Less. |
| | RS. | | |
| 1919–20 .. | 64,04,060 | 1·66 | .. |
| 1920–21 .. | 76,89,390 | 2·84 | .. |
| 1921–22 .. | 84,77,788 | .. | 6·16 |
| 1922–23 .. | 74,95,000 | .. | 16·9 |
| 1923–24 .. | 78,05,563 | .. | 11·9 |
| 1924–25 .. | 76,17,225 | .. | 3·4 |
| 1925–26 .. | 76,90,129 | 5·0 | .. |
| 1926–27 .. | 1,17,69,836 | .. | 22·6 |
| 1927–28 .. | 1,27,66,614 | .. | 9·1 |
| 1928–29 .. | 1,38,52,522 | .. | 29·9 |
| 1929–30 .. | 1,44,80,258 | .. | 17·7 |
| 1930–31 .. | 1,34,45,943 | .. | 0·75 |
| 1931–32 .. | 1,13,05,884 | .. | 12·5 |
| 1932–33 .. | 69,00,642 | 10·1 | .. |
| 1933–34 .. | 73,53,816 | .. | 19·7 |
| 1934–35 .. | 62,95,983 | .. | 3·6 |
| 1935–36 .. | 63,43,300 | ·006 | .. |
| 1936–37 .. | 73,15,744 | .. | 19·2 |
| 1937–38 .. | 77,76,934 | .. | 6·53 |

NOTE.—The figures include contribution funds but exclude funds at the disposal of civil officers.

(*c*) Statement showing in abstract the appropriation and expenditure in 1937–38 including Irrigation Works.

| Finance heads. | Original appropriation. | Final appropriation. | Actual expenditure. |
|---|---|---|---|
| | RS. | RS. | RS. |
| *Works and Repairs—Buildings and Roads.* | | | |
| 50. Civil Works— | | | |
| Central .. .. .. .. | 73,000 | 74,010 | 72,891 |
| Provincial— | | | |
| Partially excluded areas .. .. | 3,94,100 | 3,91,700 | 3,91,177 |
| Ordinary areas .. .. .. | 52,28,600 | 48,51,300 | 49,68,001 |
| 81. Civil Works not charged to Revenue— | | | |
| Partially excluded areas .. .. | .. | .. | .. |
| Ordinary areas .. .. .. | 16,72,800 | 13,11,200 | 13,06,611 |
| Non-Government Works— | | | |
| Other Deposit Works (Buildings and Roads and Irrigation) .. | .. | .. | 4,80,862 |
| Works executed under the Agency function as a standing arrangement— | | | |
| Postal and Telegraph Works .. | .. | .. | 23,448 |
| Military Works .. .. .. | .. | .. | 1,194 |
| Archæological Works .. .. | .. | .. | 24,696 |
| Total, Civil Works, etc. .. | .. | .. | 72,68,880 |

Koviloor Academy



(c) Statement showing in abstract the appropriation and expenditure in 1937-38 including Irrigation Works—*cont.*

| Finance heads. | Original appropriation. | Final appropriation. | Actual expenditure. |
|---|---|---|---|
| | RS. | RS. | RS. |
| *Works and Repairs—Irrigation Works.* | | | |
| 68. Construction of Irrigation Works not charged to Revenue (less receipts on capital account) .. .. | 7,18,500 | 3,63,800 | 3,61,056 |
| 68. Construction—Minor Irrigation Works (less receipts on capital account) .. .. .. .. | 12,97,000 | 12,43,600 | 12,37,469 |
| XVII. Irrigation—Working expenses .. | 31,74,800 | 30,28,200 | 30,04,062 |
| 18. Other revenue expenditure financed from ordinary revenues (partially excluded and ordinary areas) .. | 24,28,700 | 24,01,600 | 23,79,873 |
| 19. Irrigation Works, etc. (less receipts on capital account) .. .. .. | 2,68,900 | 2,50,900 | 2,48,849 |
| Total, Irrigation Works .. | .. | .. | 72,31,309 |
| *Establishment.* | | | |
| 18-A. (3) Special irrigation survey establishment .. .. .. .. | 11,200 | 36,100 | 43,429 |
| 68. Construction—Mettur Project .. | 15,000 | 25,300 | 25,800 |
| 68. Construction—Kattalai Kistna East Bank canal and Peddalanka channels .. .. .. .. | 28,700 | 29,300 | 25,683 |
| 68. Construction—Minor Irrigation Works .. .. .. .. .. | 3,53 800 | 2,68,500 | 2,64,471 |
| 68. Construction—Pensionary charges. | 17,600 | 17,300 | 16,287 |
| 19. Irrigation Works, etc. .. .. | 7,200 | 5,700 | 9,221 |
| XVII. Special establishment debited to the working expenses of the Kistna Delta and Cauvery-Mettur Project .. .. .. .. .. | 20,300 | 8,600 | 6,518 |
| XVII. Pensionary charges on *pro rata*, water regulation and special establishment .. .. .. .. | 94,700 | 95,100 | 1,11,031 |
| Ordinary establishment— | | | |
| 50. Civil Works—Provincial—Ordinary areas exclusive of English cost .. .. .. .. .. | 39,01,600 | 38,52,100 | (a) 38,75,711 |
| 50. Civil Works—Provincial—Partially excluded area exclusive of English cost.. .. .. .. | 60,700 | 54,500 | 93,524 |
| English cost of establishment— | | | |
| 68. Construction, etc. (Mettur Project) .. .. .. .. | .. | 9,400 | 9,305 |
| 50. Civil Works—Partially excluded area .. .. .. .. .. | .. | .. | .. |
| 50. Civil Works—Ordinary areas .. | 1,86,000 | 1,83,800 | 1,70,587 |
| Gain by exchange— | | | |
| 68. Construction, etc. (Mettur Project) .. .. .. .. | .. | — 100 | — 48 |
| 50. Civil Works—Partially excluded area .. .. .. .. .. | .. | .. | .. |
| 50. Civil Works—Ordinary areas .. | .. | — 800 | — 875 |
| Total, Establishment .. | .. | .. | 46,50,644 |

(a) Excludes District Board Establishment.

Koviloor Acadamy



(c) Statement showing in abstract the appropriation and expenditure in 1937–38 including Irrigation Works—*cont.*

| Finance heads. | Original appropriation. | Final appropriation. | Actual expenditure. |
|---|---|---|---|
| | RS. | RS. | RS. |
| *Tools and plant.* | | | |
| 50. Civil Works—Partially excluded areas (gross) .. .. .. .. | 1,400 | 1,000 | 992 |
| 50. Civil Works—Ordinary area as (gross) .. .. .. .. .. | 1,07,000 | 95,200 | 91,226 |
| 18. Other revenue expenditure—Lower Bhavani and Tungabhadra Projects .. .. .. .. | 25,000 | 13,200 | 13,124 |
| 68. Construction, etc.—Kistna East Bank canal extension scheme .. | 200 | 200 | 29 |
| 68. Construction, etc.—Minor Irrigation Works .. .. ... .. | 1,300 | 300 | 57 |
| Total, Tools and plant .. | .. | .. | 1,05,428 |
| *Suspense.* | | | |
| 68. Construction, etc.—Cauvery-Mettur Project .. .. .. | — 30,000 | — 42,500 | — 42,865 |
| 50. Civil Works .. .. .. | — 47,500 | — 49,300 | — 48,452 |
| Total, Suspense .. | .. | .. | — 91,317 |
| Grand total .. | .. | .. | 1,91,64,944 |

## V.—MANUFACTURING OPERATIONS.

### Madras Circle.

There were no manufacturing operations in the circle. The new brick-fields at Aminjikkarai have been leased out to a private party and a portion of the site has been ordered to be sold by the Revenue Department as house-sites.

### Bezwada Circle.

Several classes of articles such as ferro-concrete mile-stones, furlong stones and demarcation stones were manufactured.

### Dowlaishwaram Circle.

No manufacturing operations were done during the year. The supply of quarry materials and conveyance were let on contract. The operation charges during the year amounted to Rs. 1,649 and the outturn to Rs. 2,475.

## VI.—WORKSHOPS.

### Madras.

The value of outturn under all heads during the year was Rs. 2,58,220 as against Rs. 2,37,898 last year. The total number of work orders sanctioned during the year was 1,225 and those during the last quinquennium were as shown below :—

| Year. | 1932–33. | 1933–34. | 1934–35. | 1935–36. | 1936–37. |
|---|---|---|---|---|---|
| Number .. .. | 1,189 | 1,272 | 1,198 | 1,360 | 1,286 |

Mechanics were deputed in 104 cases for outdoor jobs under the supervision of an outdoor foreman. The value of tools and plant

Koviloor Acadamy



at the beginning of the year was Rs. 1,28,471 and at the end of the year was Rs. 1,06,173.

There was a fatal accident in the Government School of Technology resulting in the death of five coolies. Compensation in this case was paid by the Public Works Department. There were 12 minor accidents during the year resulting in short temporary disablement to the workmen.

The workmen of the Workshops and Stores went on strike from 12th July 1937 to 22nd July 1937 demanding more concessions regarding leave with pay, increment to wages, provident fund, gratuity, etc. Orders of Government on the demands were communicated in G.O. Ms. No. 63, Public Works Department, dated 11th January 1938. The Workshops were last inspected by the Inspector of Factories on 14th May 1937.

### Bezwada.

The value of work done during the year was Rs. 1,02,583 against Rs. 1,06,297 last year. 731 work orders and 14 private job works were executed during the year against 845 work orders and 15 private job works last year.

The 12 horse-power engine No. M. 708 continued to run the shops during the year. The fitting up of the machinery received from the Divi Pumping Station will be taken up during 1938–39. The charges levied on general charges and indirect charges were 21 per cent and 24 per cent, respectively. About Rs. 489 was debited to general charges on account of apprentices undergoing training in the shops. The profit on general charges during the year was about Rs. 794. The shops were last inspected by the Inspector of Factories on 17th November 1937.

### Dowlaishwaram.

The value of work done during the year was Rs. 1,38,971 against Rs. 1,51,360 last year, the greater outturn during 1936–37 being due to the installation of 3 feet falling shutters to the Godavari anicut and purchase of suction dredger. 741 jobs were executed during the year against 816 last year. Four apprentices were admitted for practical training. One Allen pump was purchased at a cost of Rs. 316. There were no accidents during the year. The shops were inspected by the Inspector of Factories on 7th June 1937 and 19th November 1937.

## VII.—STORES.

### Madras.

The opening balance of stock during the year was Rs. 3,22,800 and the closing balance, Rs. 2,81,000. Out of the reduction of stock for Rs. 41,800, the value of surplus stock disposed off was Rs. 23,800, and the balance of surplus stock of the value of Rs. 1,31,000 is being used on works to the best possible advantage.

Koviloor Acadamy



The total amount of debits (receipts) to stock during the year was Rs. 1,26,300 and was distributed as follows :—

| | Rs. |
|---|---|
| 1 From Director-General of Stores and Indian Stores Department .. .. .. .. .. .. .. .. .. | 36,013 |
| 2 Local purchases .. .. .. .. .. .. .. | 58,252 |
| 3 From other divisions and departments .. .. .. .. | 7,098 |
| 4 Manufactured articles and miscellaneous receipts .. .. | 4,739 |
| 5 Through adjustments .. .. .. .. .. .. | — 7,715 |
| 6 Storage charges .. .. .. .. .. .. .. | 10,675 |
| 7 Working expenditure of Plant and Machinery .. .. .. | 17,203 |
| Total .. | 1,26,265 or 1,26,300 |

The total amount of credits to stock (issues) during the year was Rs. 1,68,100.

The total amount of hire charges realized on heavy plant and machinery was Rs. 11,400, as follows :—

| | Rs. |
|---|---|
| A Class .. .. .. .. .. .. .. | 900 |
| B Class .. .. .. .. .. .. .. | 3,600 |
| C Class .. .. .. .. .. .. .. | 6,900 |
| Total .. | 11,400 |

BEZWADA.

The sanctioned reserve limit was Rs. 80,000 and the balance of stock at the end of the year was Rs. 70,688. The receipts and issues during the year were Rs. 96,379 and Rs. 79,532, respectively. The stock in the Divisional Stores was verified by the stock verifying officer from 18th October 1937 to 23rd December 1937.

DOWLAISHWARAM.

The reserve limit of stock is Rs. 88,000. The value of stock at the end of the year was Rs. 73,326. The receipts and issues during the year were Rs. 1,10,257 and Rs. 1,20,143, respectively, against Rs. 1,08,910 and Rs. 1,21,431 last year.

Gun metal, brass and white metal imports to the value of about Rs. 896 were stolen in May 1937. The suit filed by the Police in the Stationary Sub-Magistrate's Court, Rajahmundry, was dismissed. The District Superintendent of Police has been addressed to examine the judgment and to prefer an appeal.

## VIII.—DIRECTION.

Mr. M. O'Brien, C.I.E., B.E., A.M.I.C.E., continued to be Chief Engineer (General, Buildings and Roads), till 14th February 1938 afternoon when he proceeded on leave, preparatory to retirement. He was succeeded by Mr. H. R. Dogra, B.SC., who continues to hold the post.

Koviloor Acadamy



Mr. F. M. Dowley, M.I.C.E., continues as Chief Engineer for Irrigation.

Sri Rao Bahadur N. Govindaraja Ayyangar, B.A., B.E., and Sri Rao Sahib A. R. Venkata Acharya, B.E., continue as Deputy Chief Engineer (General, Buildings and Roads), and Deputy Chief Engineer for Irrigation, respectively.

Mr. R. Dann, F.R.I.B.A., M.T.P.I., A.I.I.A., continued as Special Architect till 11th May 1937 afternoon when he proceeded on leave, preparatory to the termination of his contract with the Government. His post was abolished and his office establishment was amalgamated with that of the Consulting Architect to Government.

Mr. J. Fernandez, A.I.I.A., continues as Consulting Architect to Government.

H. R. DOGRA,
*Chief Engineer, P.W.D.*
*(General, Buildings and Roads).*

Koviloor Acadamy



## APPENDIX A.

### Statement showing the appropriation and outlay during 1937–38 under all heads of Civil Works.

| Service heads. | Original works. | | Repairs. | | Total. | |
|---|---|---|---|---|---|---|
| | Appropriation. | Outlay. | Appropriation. | Outlay. | Appropriation. | Outlay. |
| | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. |
| *Central.* | | | | | | |
| Civil buildings .. .. .. .. .. | 18,110 | 17,595 | 55,300 | 54,618 | 73,410 | 72,213 |
| Communications .. .. .. .. .. | .. | .. | 600 | 678 | 600 | 678 |
| Establishment .. .. .. .. .. | .. | .. | .. | .. | 12,952 | 12,427 |
| Tools and Plant .. .. .. .. .. | .. | .. | .. | .. | 1,113 | 1,106 |
| Total, Civil Works—Central .. | .. | .. | .. | .. | .. | 86,424 |
| *Provincial.* | | | | | | |
| 50. Civil Works—Partially excluded areas— | | | | | | |
| Civil buildings .. .. .. .. .. | 5,500 | 5,621 | } 2,56,200 { | 6,491 | } 3,91,700 { | 12,112 |
| Communications .. .. .. .. .. | 1,30,000 | 1,29,286 | | 2,49,779 | | 3,79,065 |
| Establishment (excluding English cost).. .. | .. | .. | .. | .. | (b) 54,500 | (a) 91,311 |
| Tools and Plant .. .. .. .. .. | .. | .. | .. | .. | (b) 1,000 | (a) 986 |
| Gain by exchange on English transactions .. | .. | .. | .. | .. | .. | .. |
| English cost of Establishment .. .. .. | .. | .. | .. | .. | .. | .. |
| Total, 50. Civil Works—Provincial—Partially excluded areas .. .. .. .. .. | .. | .. | .. | .. | .. | 4,83,474 |

(a) Net debits to Establishment and Tools and Plant.

(b) Represents gross grants.

Koviloor Acadamy



## Statement showing the appropriation and outlay during 1937-38 under all heads of Civil Works—*cont.*

| Service heads. | Original works. | | Repairs. | | Total. | |
|---|---|---|---|---|---|---|
| | Appropriation. | Outlay. | Appropriation. | Outlay. | Appropriation. | Outlay. |
| | RS. | RS. | RS. | RS. | RS. | RS. |
| 50. Civil Works—Provincial—Ordinary areas— | | | | | | |
| Civil buildings | 23,34,100 | 23,09,305 | 19,87,000 | 14,77,222 | 48,51,300 | 37,86,527 |
| Communications | 5,21,000 | 6,51,851 | | 5,09,340 | | 11,61,191 |
| Miscellaneous | 9,200 | 9,521 | | 10,762 | | 20,283 |
| Establishment (excludes District Board establishment and English cost) | .. | .. | .. | .. | (*b*) 38,52,100 | (*a*) (*c*)14,20,571 |
| Tools and Plant | .. | .. | .. | .. | (*b*) 95,200 | (*a*) 62,250 |
| Suspense | .. | .. | .. | .. | — 49,300 | — 48,452 |
| Gain by exchange on English transactions | .. | .. | .. | .. | — 800 | — 875 |
| English cost of establishment | .. | .. | .. | .. | 1,83,800 | 1,70,587 |
| Total, 50. Civil Works—Ordinary areas | .. | .. | .. | .. | .. | 65,72,082 |
| 81. Civil Works—Partially excluded areas— | | | | | | |
| Civil buildings | .. | .. | .. | .. | .. | .. |
| Establishment | .. | .. | .. | .. | .. | .. |
| Tools and Plant | .. | .. | .. | .. | .. | .. |
| Total, 81. Civil Works—Partially excluded areas | .. | .. | .. | .. | .. | .. |
| 81. Civil Works—Ordinary areas— | | | | | | |
| Civil buildings | 13,11,200 | 13,06,611 | .. | .. | 13,11,200 | 13,06,611 |
| Communications | .. | .. | .. | .. | .. | .. |
| Establishment | .. | .. | .. | .. | .. | 2,82,385 |
| Tools and Plant | .. | .. | .. | .. | .. | 2,581 |
| Total, 81. Civil Works—Ordinary areas | .. | .. | .. | .. | .. | 15,91,577 |
| *Non-Government Works.* | | | | | | |
| Deposit works (with centage) | .. | .. | .. | .. | .. | 5,47,078 |

(*a*) Net debits to Establishment and Tools and Plant.
(*b*) Represents gross grants.
(*c*) Excludes the cost of District Board Engineer's establishment.

Koviloor Acadamy



## Statement showing a comparison of Programme with Execution by circles—Civil Works—1937–38.

| Circle. | Provincial. | | | | Central (excluding Postal, Military and Archæological). | | | | Expenditure on non-Government works (Deposit works). |
|---|---|---|---|---|---|---|---|---|---|
| | Final appropriation. | Expenditure. | Percentage of appropriation. | | Final appropriation. | Expenditure. | Percentage of appropriation. | | |
| | | | More. | Less. | | | More. | Less. | |
| | RS. | RS. | | | RS. | RS. | | | RS. |
| Bellary .. .. .. .. | 3,35,600 | 3,30,917 | 1·42 | .. | 1,990 | 1,994 | .. | 0·20 | 66,272 |
| Bezwada .. .. .. .. | 3,07,700 | 3,05,214 | 0·81 | .. | 1,290 | 1,267 | 1·82 | .. | 91,018 |
| Coimbatore .. .. .. .. | 14,85,500 | 14,79,980 | 0·37 | .. | 13,690 | 13,700 | .. | 0·07 | 40,958 |
| Dowlaishwaram .. .. .. | 7,30,500 | 7,27,289 | 0·44 | .. | 4,610 | 4,692 | .. | 1·75 | 44,665 |
| Madras .. .. .. .. | 23,08,800 | 24,37,224 | .. | 5·27 | 37,670 | 37,403 | 0·71 | .. | 63,026 |
| Tanjore .. .. .. .. | 1,79,700 | 1,78,461 | 0·69 | .. | 11,350 | 11,314 | 0·32 | .. | 43,283 |
| Trichinopoly .. .. .. | 7,40,200 | 7,48,501 | .. | 1·11 | 11,220 | 10,308 | 8·85 | .. | 1,12,846 |
| Electrical Engineer .. .. .. | 4,44,200 | 4,38,394 | 1·32 | .. | 3,490 | 3,112 | 12·15 | .. | 1,785 |
| Civil officers .. .. .. .. | 22,000 | 19,809 | 11·06 | .. | .. | .. | .. | .. | .. |
| Total .. | 65,54,200 | 66,65,789 | .. | 1·67 | 85,310 | 83,790 | 1·81 | .. | 4,63,853 |

Koviloor Acadamy



## APPENDIX B.

### Statement showing the length of road communications maintained by the public authorities during 1937–38 (excluding the Corporation of Madras).

| Name of division. | Name of district. | Length of roads maintained by the Public Works Department. | | Length of roads maintained by local authorities. | | Total length of roads. | |
|---|---|---|---|---|---|---|---|
| | | Metalled. | Unmetalled. | Metalled. | Unmetalled. | Metalled. | Unmetalled. |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
| | | M. F. | M. F. | M. F. | M. F. | M. F. | M. F. |
| **Bellary Circle—** | | | | | | | |
| Bellary | Bellary | 2 5 | 0 5 | 1,055 1 | 116 7 | 1,057 6 | 117 4 |
| Kurnool | Kurnool | .. | .. | 796 2 | 168 7 | 796 2 | 168 7 |
| Madanapalle | Anantapur | .. | .. | 842 2 | 349 1 | 842 2 | 349 1 |
| | Chittoor | .. | .. | 1,001 5 | 418 2 | 1,001 5 | 418 2 |
| | Cuddapah | .. | .. | 879 0 | 120 5 | 879 0 | 120 5 |
| **Bezwada Circle—** | | | | | | | |
| Guntur | Guntur | 2 3 | .. | 1,004 5 | 603 5 | 1,007 0 | 603 5 |
| Kistna Central | Kistna | 4 1 | 31 5 | 561 3 | 587 5 | 565 4 | 619 2 |
| Nellore | Nellore | 7 1 | .. | 1,197 3 | 117 0 | 1,204 4 | 117 0 |
| **Coimbatore Circle—** | | | | | | | |
| Coimbatore | Coimbatore | 73 4 | 25 6 | 2,156 3 | 1,143 6 | 2,229 7 | 1,169 4 |
| | Nilgiris, The | 22 1 | 7 3 | 472 6 | 240 6 | 494 7 | 248 1 |
| North Arcot | North Arcot | 2 0 | .. | 1,048 6 | 520 7 | 1,050 6 | 520 7 |
| Salem | Salem | 27 2 | 13 1 | 1,232 4 | 912 3 | 1,259 6 | 925 4 |
| West Coast | Malabar | 108 3 | .. | 1,346 6 | 543 2 | 1,455 1 | 543 2 |
| | South Kanara | .. | ... | 693 7 | 879 4 | 693 7 | 879 4 |
| **Dowlaishwaram Circle—** | | | | | | | |
| Godavari Headworks | Godavari, East | 7 7 | 1 3 | 1,446 6 | 996 6 | 1,603 7 | 1,123 5 |
| | Do. West | 14 2 | .. | | | | |
| Do. Northern | Do. East | 132 7 | 124 5 | | | | |
| Do. Western | Do. West | 2 1 | 0 7 | | | | |
| Vizagapatam | Vizagapatam | 139 1 | 12 7 | 1,424 1 | 298 2 | 1,563 2 | 311 1 |

Koviloor Acadamy

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Madras Circle— | | | | | | | | | | | | | | | | | | | |
| Chingleput .. .. .. | Chingleput .. .. | 2 | 4 | .. | | 911 | 2 | 688 | 7 | 913 | 6 | 688 | 7 |
| South Presidency .. .. .. | Madras .. .. .. | 1 | 4 | .. | | .. | | .. | | 1 | 4 | .. | |
| Tanjore Circle— | | | | | | | | | | | | | | | | | | | |
| River Conservancy .. .. | South Arcot .. .. | .. | | 38 | 0 | .. | | .. | | .. | | 38 | 0 |
| | Tanjore .. .. .. | 3 | 1 | 34 | 6 | .. | | .. | | 3 | 1 | 34 | 6 |
| | Trichinopoly .. .. | 17 | 3 | 23 | 0 | .. | | .. | | 17 | 3 | 23 | 0 |
| South Arcot .. .. .. | South Arcot .. .. | 11 | 7 | 49 | 1 | 928 | 7 | 1,219 | 6 | 940 | 6 | 1,268 | 7 |
| Cauvery .. .. .. | Tanjore .. .. .. | 0 | 7 | 61 | 7 | 801 | 5 | 1,914 | 1 | 802 | 4 | 2,114 | 0 |
| Grand Anicut Canal .. .. | | .. | | 2 | 6 | | | | | | | | |
| Vennar .. .. .. | | .. | | 135 | 2 | | | | | | | | |
| Trichinopoly Circle— | | | | | | | | | | | | | | | | | | | |
| Periyar .. .. .. .. | Madura .. .. .. | 45 | 5 | .. | | 952 | 2 | 558 | 3 | 997 | 7 | 558 | 3 |
| Ramnad .. .. .. .. | Ramnad .. .. | .. | | .. | | 706 | 7 | 306 | 3 | 706 | 7 | 306 | 3 |
| Tinnevelly .. .. .. .. | Tinnevelly .. .. | 1 | 3 | 2 | 0 | 1,236 | 7 | 100 | 0 | 1,238 | 2 | 102 | 0 |
| Trichinopoly .. .. .. | Trichinopoly .. .. | 12 | 7 | 15 | 2 | 810 | 6 | 623 | 5 | 823 | 5 | 638 | 7 |
| Cantonments .. .. .. | .. | .. | | .. | | 90 | 6 | 1 | 5 | 90 | 6 | 1 | 5 |
| | Total .. | 642 | 7 | 580 | 2 | 23,598 | 6 | 13,430 | 2 | 24,241 | 5 | 14,010 | 4 |

*N.B.*—About 1,223 miles of road were maintained by the Public Works Department and the cost of their maintenance during the year was about Rs. 7·58 lakhs.
A length of 2 furlongs and 480 feet of tar macadam road and 3 furlongs and 429 feet of metalled road which belong to the Public Works Department are being maintained by the Corporation of Madras for which an annual contribution of Rs. 1,580 was paid by the Public Works Department to the Corporation.

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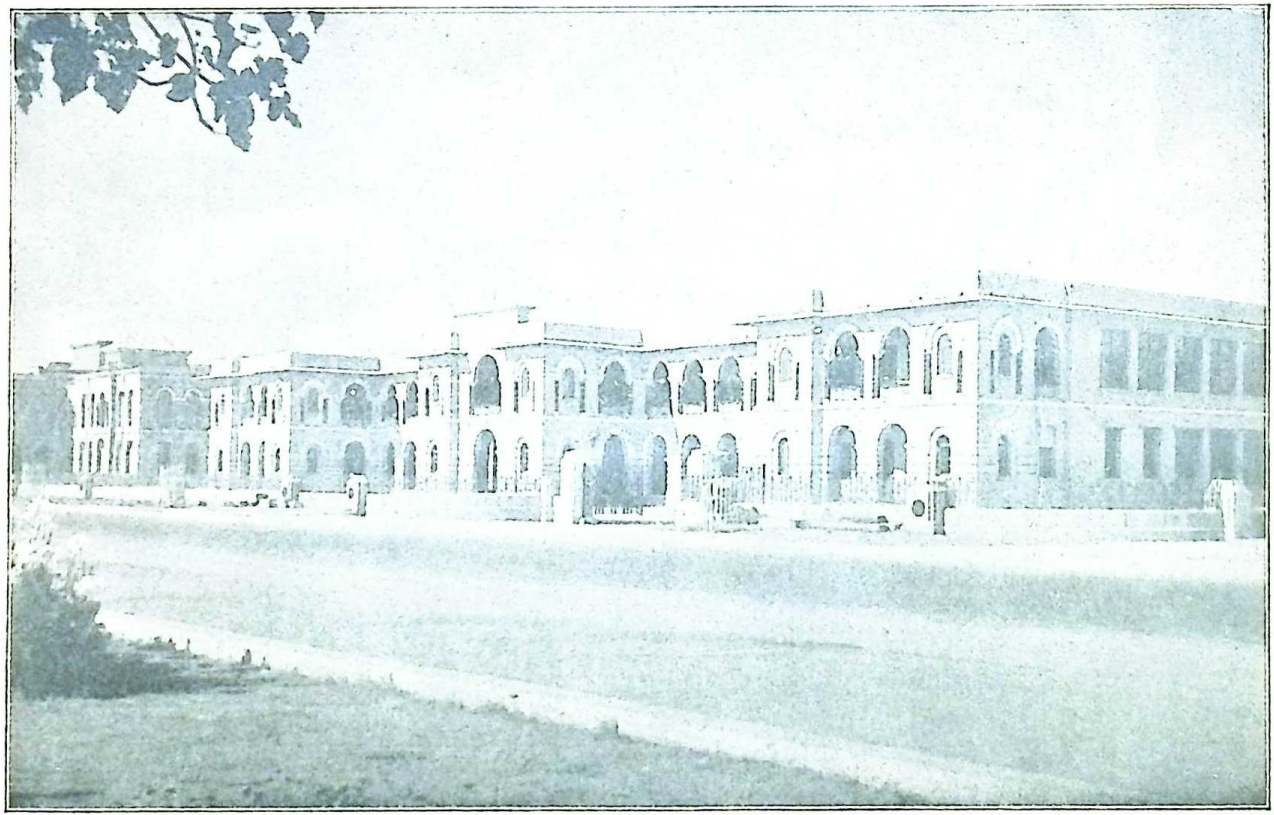
## APPENDIX C.

Statement showing the amounts spent by civil officers on repairs to buildings borne on the Public Works Department registers.

| Occupying department. | Amount. |
|---|---|
| | RS. |
| Agriculture .. .. .. .. | 30,204 |
| Co-operative .. .. .. .. | 400 |
| Education .. .. .. .. | 15,911 |
| Excise .. .. .. .. | 987 |
| Fisheries .. .. .. .. | 11 |
| Forest .. .. .. .. | 979 |
| Industries .. .. .. .. | 410 |
| Jails .. .. .. .. | 15,942 |
| Judicial .. .. .. .. | 10,055 |
| Medical .. .. .. .. | 34,252 |
| Police .. .. .. .. | 34,863 |
| Public Health .. .. .. | 272 |
| Registration .. .. .. | 12,857 |
| Revenue .. .. .. .. | 59,406 |
| Veterinary .. .. .. .. | 9,984 |
| Customs .. .. .. .. | 11 |
| Local bodies .. .. .. .. | 984 |
| Total .. | 2,27,528 |



1. NATURAL SCIENCE BLOCK BUILDINGS, MADRAS.
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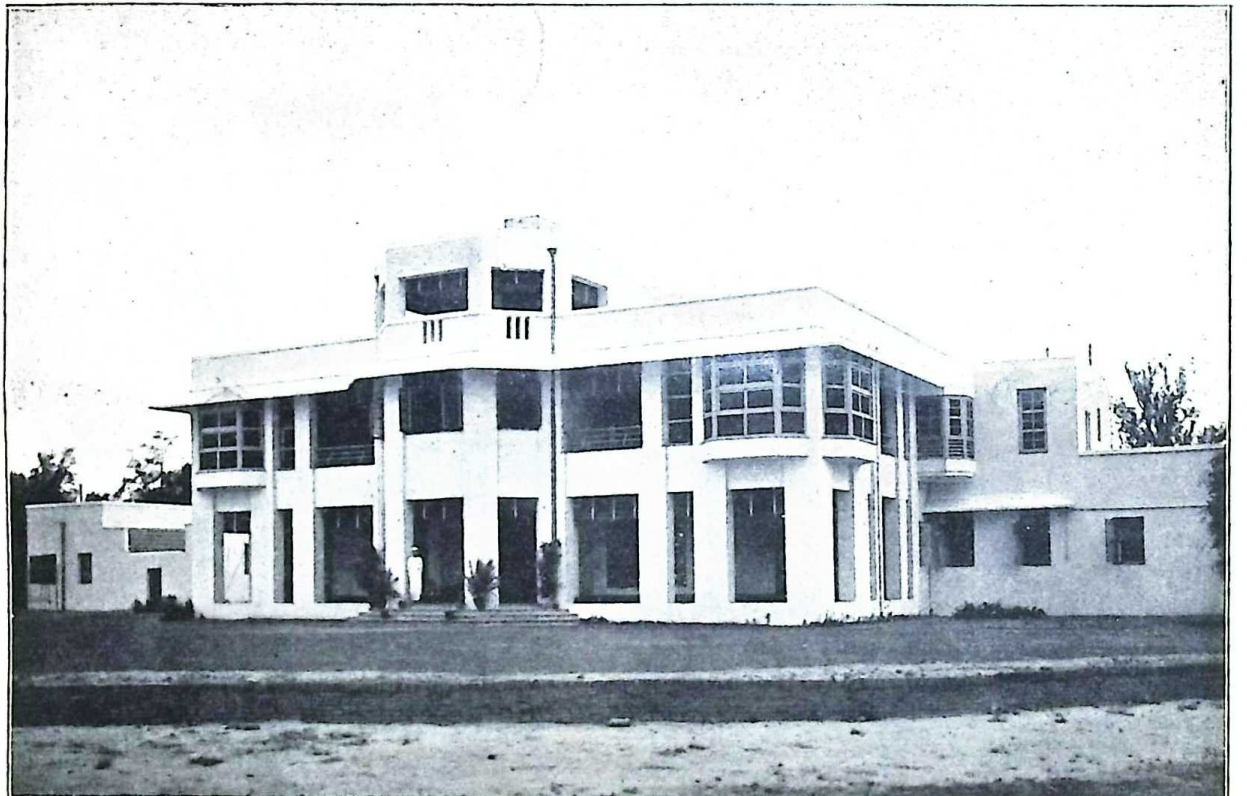
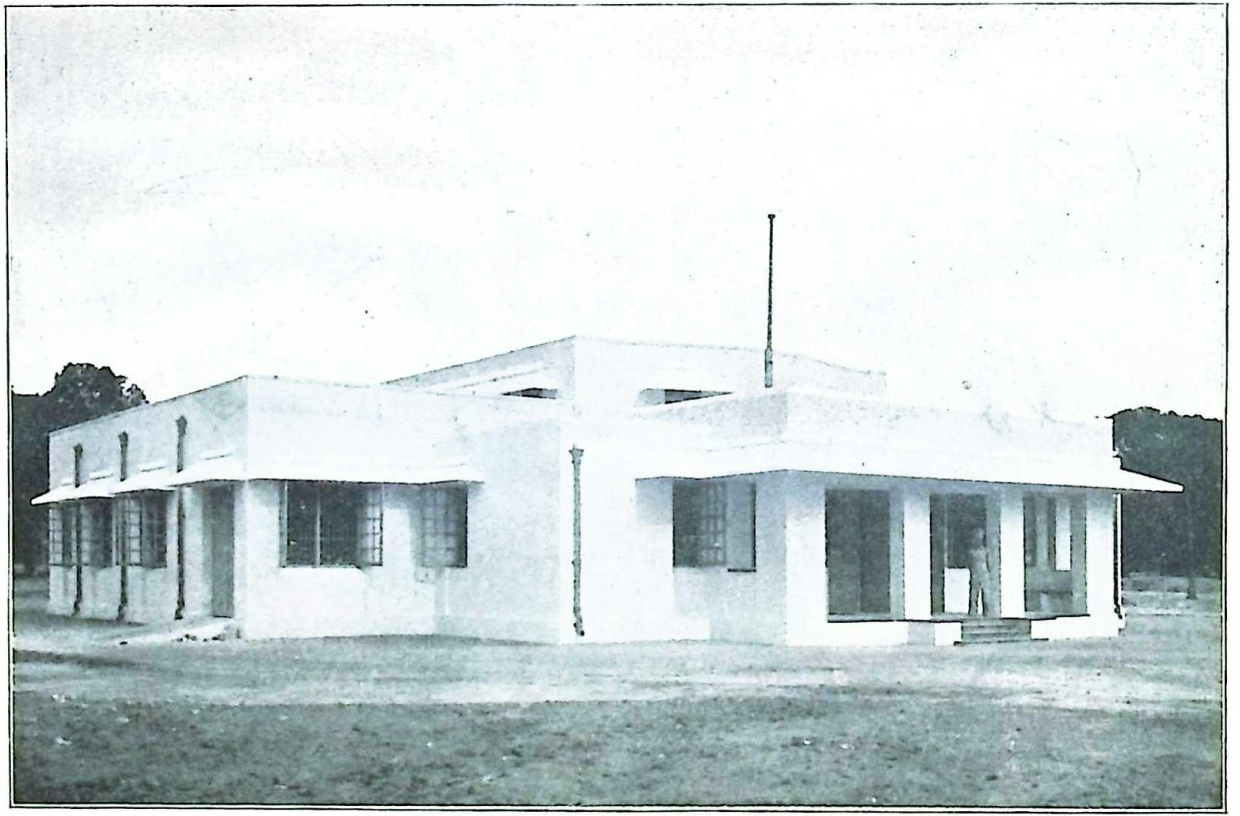


2. CLASS II RESIDENCE, ADYAR, MADRAS.



3. SHORTWAVE BROADCASTING STATION, GUINDY, MADRAS.

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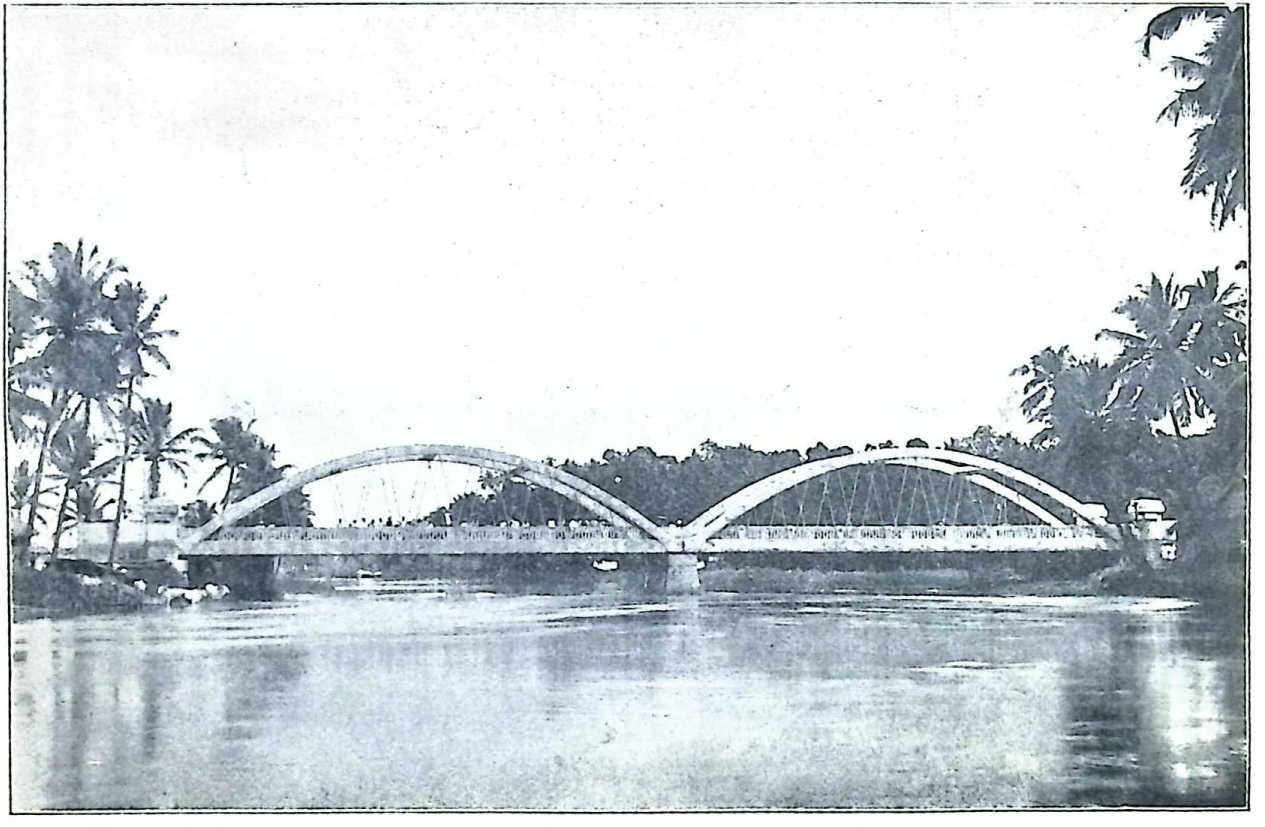

4. ERANJOLLY BRIDGE AT MILE 2/0 OF THE TELLICHERRY COORG ROAD.

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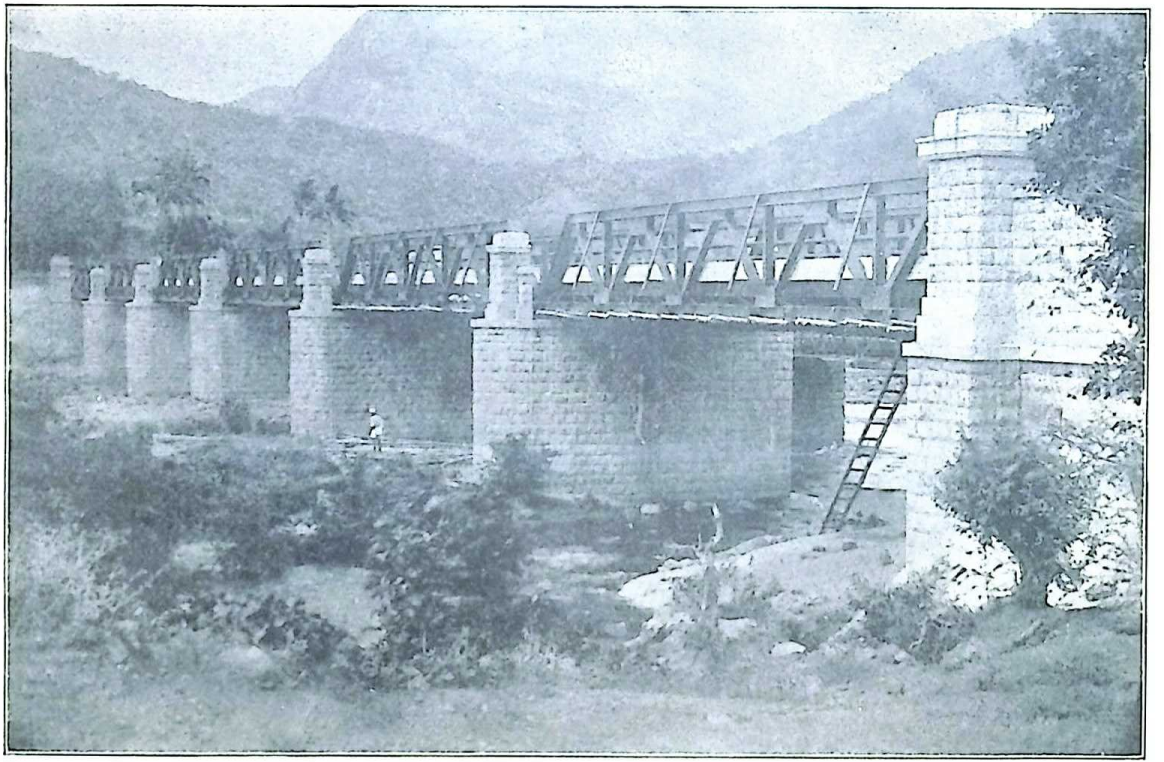

5. BRIDGE ACROSS THE ALIYAR RIVER AT MILE 0/1 OF THE ANAMALAI GHAT ROAD.

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# Government of Madras

PUBLIC WORKS DEPARTMENT

(General)

## G.O. No. 2475, 23rd November 1938

Administration Report, Public Works Department, Part I, Civil Works, 1937–38—Recorded.

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From the Chief Engineer (General, Buildings and Roads), dated 14th November 1938, No. 2472-Ad./38-36.

**Order—No. 2475, P.W. (General), dated 23rd November 1938.**

Recorded.

(By order of His Excellency the Governor)

K. RAMUNNI MENON,
*Secretary to Government.*

To the Chief Engineer (General, Buildings and Roads).
,, Accountant-General, Madras.
,, Public Department.
,, Librarian, Madras Legislature, Senate House, Chepauk.
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[Annexure

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